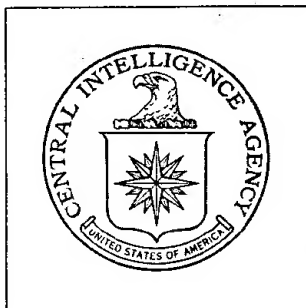


Top Secret



DIRECTORATE OF
INTELLIGENCE

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Selected Iron and Steel Plants

China

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DATE JUNE 1971

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

ABSTRACT

This report covers 42 iron and steel plants which represent all but a small percentage of the known iron and steel production facilities in China. It updates the information on 39 plants described in previous basic reports. Three other plants which were previously reported were either not covered or not seen on interpretable photography. The cut-off date for information in this report is February 1971.

During the period of this study, 1970-early 1971, 37 of the 42 plants were observed in operation. The five primary plants, those at An-shan, Wu-han, Tai-yuan, Pao-tou, and Shang-hai were highly active during this reporting period.

Construction activity was observed at 26 plants, while no construction was seen at 13 plants. Five large/medium blast furnaces were completed, and five additional ones were observed under construction during this reporting period. Construction was nearing completion on the three large rolling mills at Pao-tou, Shih-ching-shan, and Tai-yuan. The iron, coke, and ore sintering facilities at Jen-ho-chieh were operating but not yet fully complete. New buildings under construction in the southeastern section of this plant could not be identified; however, there is evidence that this area will contain the steel production facilities for the plant. Construction has continued slowly at the Chiu-chuan plant, but the presence of coal and ore within the storage yards suggests that the iron and coke facilities probably will soon become operational. New facilities were being built at a rapid rate at the An-yang and Han-tan plants. A possible basic oxygen furnace building was in an early to mid-stage of construction at both of these plants. At the Tai-yuan plant, two basic oxygen furnaces have been installed, and they were seen operating for the first time in June 1970.

This report describes construction and production activity for each plant studied, and provides a photograph when better imagery than previously used was available.

INTRODUCTION

The majority of the Chinese iron and steel plants are located in the industrial north or along the Yangtze (Chang Chiang) River east of Wu-han (see Figure 1).

Two additional probable iron and steel plants in an early stage of construction are not included in this report. These plants are located at Tou-tang (Shui-cheng) and Yen-tsun. Tou-tang is located 150 nm northeast of Kun-ming and Yen-tsun is located 11 nm southwest of Nan-ching.

The length and width measurements indicated on the key to annotations when multiplied may not equal the corresponding square feet of roof cover. The area of roof cover was determined by taking into account all protrusions and accurately determining the total square feet. For brevity, the level of production activity is indicated as inactive (no visible signs of plant operation), low activity (up to 30 percent of the total plant facilities in operation), moderate activity (between 30 and 70 percent of the total plant facilities in operation), and high activity (from 70 to 100 percent of the total plant facilities in operation).

The approximate size of the blast furnaces was determined by comparative analysis. Blast furnaces are described as small (up to 150 tons/day), medium (200-700 tons/day), and large (700-1,300 tons/day).

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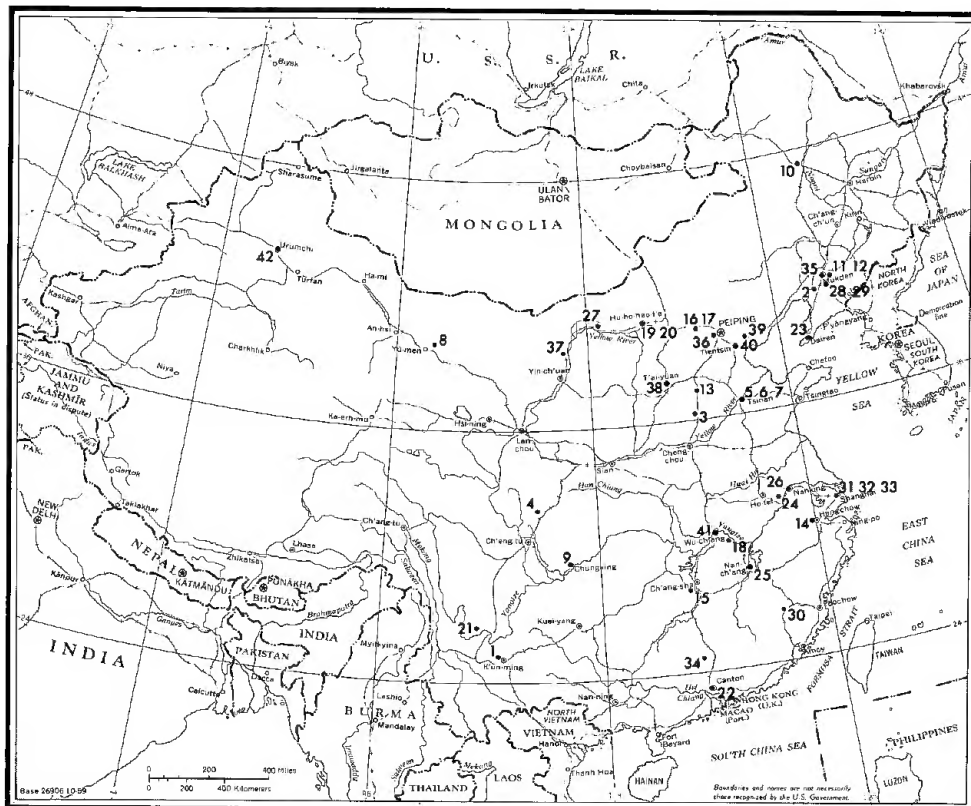


FIGURE 1. LOCATION MAP.

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The following list of iron and steel plants included in this study is keyed to Figure 1.

1. An-ning Iron and Steel Plant Kun-ming.
2. An-shan Iron and Steel Plant.
3. An-yang Iron and Steel Plant.
4. Chiang-yu Iron and Steel Plant.
5. Chi-nan Iron Plant East.
6. Chi-nan Iron and Steel Plant.
7. Chi-nan Iron and Steel Plant Li-cheng.
8. Chiu-chuan Iron and Steel Plant.
9. Chung-ching Iron and Steel Plant No. 1.
10. Fu-la-erh-chi Steel Plant.
11. Fu-shun Iron Plant West.
12. Fu-shun Steel Plant.
13. Han-tan Iron and Steel Plant.
14. Hang-chou Iron and Steel Plant.
15. Hsiang-tan Iron and Steel Plant.
16. Hsuan-hua Iron and Steel Plant Lung-yen.
17. Hsuan-hua Iron Plant Lung-yen.
18. Huang-shih Steel Plant Ta-yeh.
19. Hu-ho-hao-te Iron and Steel Plant.
20. Hu-ho-hao-te Iron Plant Hsin-sheng.
21. Jen-ho-chieh Iron and Steel Plant U/C.
22. Kuang-chou Iron and Steel Plant.
23. Lu-ta Iron and Steel Plant.
24. Ma-an-shan Iron and Steel Plant.
25. Nan-chang Iron and Steel Plant.
26. Nan-ching Iron and Steel Plant Yung-li.
27. Pao-tou Iron and Steel Plant Kun-tu-lun.
28. Pen-chi Iron and Steel Plant Kung-yuan.
29. Pen-chi Iron Plant.
30. San-ming Iron and Steel Plant.
31. Shang-hai Iron and Steel Plant No. 1.
32. Shang-hai Steel Plant No. 3.
33. Shang-hai Steel Plant No. 5.
34. Shao-kuan Iron and Steel Plant Ma-pa.
35. Shen-yang Iron and Steel Plant.
36. Shih-ching-shan Iron and Steel Plant.
37. Shih-tsui-shan Iron and Steel Plant.
38. Tai-yuan Iron and Steel Plant.
39. Tang-shan Steel Plant.
40. Tien-ching Steel Plant No. 2.
41. Wu-han Iron and Steel Plant.
42. Wu-lu-mu-chi Iron and Steel Plant August 1.

Requirement

COMIREX N01
Support Number 429231

Document References

- CIA. RCS 13/0241/69, Selected Iron and Steel Plants, China, June 1969,
[] (TOP SECRET []) 25X1
- CIA. RCS 13/0047/70, Selected Iron and Steel Plants, China, May 1970,
[] (TOP SECRET []) 25X1

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INSTALLATION OR ACTIVITY NAME

COUNTRY

An-ning Iron and Steel Plant Kun-ming

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

25X1

48RTC464577

24-54-30N 102-29-30E

MAP REFERENCE

ACIC. USATC, Series 200, Sheet M0496-17HL. 3rd ed. Jan 68. Scale 1:200,000

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LATEST IMAGERY USED

NEGATION DATE (If required)

NA

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BASIC DESCRIPTION

No changes have been observed at An-ning Iron and Steel Plant Kun-ming since December 1969, the date of the latest photography used in the previous report. Construction remained suspended on the previously reported unidentified building.

A low level of activity was observed at the plant on the referenced imagery. No smoke or steam was observed coming from any of the facilities within the plant.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
An-shan Iron and Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51TVF990540	41-08-31N 122-59-22E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0289-20HL, 3rd ed, Sep 66, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

No changes have been observed at An-shan Iron and Steel Plant since November 1968, the date of the latest photography used in the previous reports.

A high level of activity was observed at the plant on the referenced imagery. The following facilities were seen operating on photography of October 1969: seven of the nine blast furnaces, 15 of the 24 open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, three rolling mills, and the associated power plant. The small scale of the December 1970 photography precluded a determination of what specific facilities were operating, but the plant had the appearance of being highly active. Smoke and steam were observed coming from many facilities.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
An-yang Iron and Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SKR551001	36-07-20N 114-17-01E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0382-24HL, 3rd ed, Aug 67, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

Construction activity has been observed at the An-yang Iron and Steel Plant since December 1969, the date of the latest photography used in the previous report. A possible basic oxygen furnace building (Figure 2, Item 3) was seen in the early to mid-stage of construction. No air separation facility could be identified at or near this plant; however, the new building under construction appears similar to the basic oxygen furnace building at Tai-yuan Iron and Steel Plant, when it was seen in a comparable stage of construction. A rolling mill (Item 6), seen in the early stage of construction in December 1969, was externally complete. One by-product coke oven battery was complete and work was continuing on a second (Item 2). The coke by-products section was complete and operating (Item 1). The modifications to a probable foundry (Item 5) were also completed. An unidentified building (Item 4), in the early stage of construction, and foundation excavations for another unidentified building (Item 7) were also seen on the latest coverage.

A high level of activity was observed at the plant on the referenced imagery. Facilities observed operating were the two blast furnaces, the rolling mill and side-blown converter shop, one by-product coke oven battery, the coke by-products section, the fire brick plant, and the steam plant.

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Key to Annotations

Item No.	Description	Dimensions (Ft)	Roof Cover (Sq. Ft)	Remarks
1	Coke by-products section	---	---	Complete
2	By-product coke oven batteries (2)	---	---	1 Complete 1 Under construction
3	Possible basic oxygen furnace building U/C	510 x --	---	Early to mid- stage of con- struction
4	Unidentified building U/C	475 x 60	28,500	
5	Probable foundry	380 x 50	19,000	Complete
6	Rolling mill	790 x 70 585 x 70 140 x 80	55,300 40,950 11,200	Externally complete
7	Unidentified building U/C	---	---	Foundations in place

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chi-nan Iron Plant East		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SNR113630	36-42-40N 117-07-30E	
MAP REFERENCE		
8th RTS. USATC, Series 200, Sheet M0381-21HL, 4th ed. Sep 69, Scale 1:200,000 (SECRET)		
25X1		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA
		25X1

BASIC DESCRIPTION

No changes have been observed at Chi-nan Iron Plant East since December 1969, the date of the latest photography used in the previous report.

Only one of the four blast furnaces was seen operating in December 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Chi-nan Iron and Steel Plant		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	NIETB NO.
50SNR080580	36-40-00N 117-05-20E	None	None
MAP REFERENCE			
8th RTS. USATC, Series 200, Sheet M0381-21HL, 4th ed, Sep 69, Scale 1:200,000			
(SECRET)			
LATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	

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BASIC DESCRIPTION

Construction has continued slowly on the probable rolling mill at Chi-nan Iron and Steel Plant since December 1969, the date of the latest photography used in this previous report. No other changes were evident within the plant area.

A moderate level of activity was observed at the plant on photography of December 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chi-nan Iron and Steel Plant Li-cheng		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SNR155641	36-43-15N 117-10-22E	
MAP REFERENCE		
8th RTS. USATC, Series 200, Sheet M0381-21HL, 4th ed, Sep 69, Scale 1:200,000		
(SECRET)		25X1
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

Construction activity has been observed at Chi-nan Iron and Steel Plant Li-cheng since December 1969, the date of the latest photography used in the previous report. The probable ore processing facility, the by-product coke oven battery, and the coke by-products section have been completed. In addition, two identified buildings were observed in the late stage of construction on photography of December 1970. These buildings were located immediately southeast of the large probable fabrication building.

A moderate level of activity was observed at the plant in December 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Fu-la-erh-chi Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51TWN468259	47-11-24N 123-37-01E	
MAP REFERENCE		
2nd RTS. USATC, Series 200. Sheet M0283-6HL, 3rd ed. Sep 69, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

Construction activity has been observed at Fu-la-erh-chi Steel Plant since December 1969, the date of the latest photography used in the previous report. A by-product coke oven battery and a coke by-products section were completed between December 1969 and December 1970. They are located outside the limits of the plant, 0.5 nm east-southeast of the forge and fabrication building. These facilities were begun prior to August 1967, but went undetected because of their location outside the plant area. Although the steel plant has no apparent need for coke, it uses the gases produced in a coke oven battery as a fuel for its furnaces. A pipeline connects the plant and the new facilities.

A high level of activity was observed at the plant on the referenced imagery. The side-blown converter shop, the open-hearth furnace building, a foundry, the rolling mill, the by-product coke oven battery, and the coke by-products section were seen operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Fu-shun Iron Plant West		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES	COMIREX NO.	NIETB NO.
51TWG638325	41-50-20N 123-46-00	None	None
MAP REFERENCE			
67th RTS. USATC, Series 200, Sheet M0290-11HI 4th ed Jan 66. Scale 1:200 000			
(SECRET)			
LATEST IMAGERY USED		NEGATION DATE (if any)	
		NA	

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BASIC DESCRIPTION

No changes have been observed at Fu-shun Iron Plant West since November 1968, the date of the latest interpretable photography used in the previous reports.

A moderate level of activity was observed at the plant on the referenced imagery.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Fu-shun Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51TWG668322	41-50-11N 123-48-04E	
MAP REFERENCE		25X1
USATC, Series 200, Sheet M0290-11HL, 4th ed. Jan 66. Scale 1:200,000		25X1
(SECRET)		
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	

BASIC DESCRIPTION

Construction activity has been observed at Fu-shun Steel Plant since November 1967, the date of the latest complete coverage of the plant used in the previous reports. Foundation footings for an addition to the fabrication building have been observed at the southeast corner of the building. In addition, a new probable fabrication building, measuring approximately 325 by 160 feet, has been constructed west of the small rolling mill.

A high level of activity was observed at the plant on the referenced imagery. The forge/foundry complex, one of the two foundries and the large rolling mill were seen operating in March and December 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Hsuan-hua Iron and Steel Plant Lung-yen		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50TLK356950	40-35-30N 115-04-15E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0289-21HL, 5th ed, Aug 68. Scale 1:200,000		
(SECRET)		25X1
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	

BASIC DESCRIPTION

No changes have been observed at Hsuan-hua Iron and Steel Plant Lung-yen since October 1969, the date of the latest photography used in the previous report. However, two new plants have been completed since October 1969 near the by-product coke oven battery. One is a probable nitrogen fertilizer plant located just south and the other is an unidentified fabrication-type plant located to the east-northeast. Neither plant is directly associated with the iron and steel plant.

A moderate level of activity was observed at the plant in November 1970. Three of eight blast furnaces, the by-product coke oven battery, and the coke by-products section were observed operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Huang-shih Steel Plant Ta-yeh		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50RLJ197429	30-12-15N 115-07-23E	
MAP REFERENCE		
2nd RTS. USATC, Series 200. Sheet MQ493-11HL 4th ed Jul 68 Scale 1:200,000		
(SECRET, 25X1		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA 25X1

BASIC DESCRIPTION

No apparent changes have been observed at Huang-shih Steel Plant Ta-yeh since January 1970, the date of the latest photography used in the previous report. An unidentified building reported under construction in the previous report remained in the same stage of construction.

A moderate level of activity was observed at the steel plant on the referenced imagery. The open-hearth furnace building, a rolling mill, and a forge shop were observed operating.

The small iron plant (No BE Number) located 7.7 nm west of the steel plant at 30-11-30N 114-58-30E has been expanded since January 1970. Two beehive coke oven batteries, a possible open-hearth furnace building, and two unidentified buildings have been recently completed. Only the beehive coke oven batteries were observed operating at the iron plant in December 1970.

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Lu-ta Iron and Steel Plant

CH

UTM COORDINATES

GEOGRAPHIC COORDINATES

51SUD796132

38-57-42N 121-36-27E

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MAP REFERENCE

15th RTS. USATC, Series 200, Sheet M0381-10HL, 3rd ed, May 67, Scale 1:200,000

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LATEST IMAGERY USED

NEGATION DATE (If required)

NA

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BASIC DESCRIPTION

Construction activity has been observed at Lu-ta Iron and Steel Plant since March 1970, the date of the latest photography used in the previous report. A large spray pond has been completed on the southern edge of the plant and it was observed in operation in October 1970. The medium size blast furnace, previously reported to be nearing completion, was complete and operating. A second blast furnace is not being built as previously reported. This construction activity has been completed, but its function cannot be identified on the referenced imagery.

A high level of activity was observed at the plant on the referenced imagery. The blast furnace was observed operating on all but the April 1970 photography.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Ma-an-shan Iron and Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50RPL397106	31-43-01N 118-28-44E	
MAP REFERENCE		
8th RTS. USATC, Series 200, Sheet M0493-4HL, 4th ed, Apr 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	

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BASIC DESCRIPTION

Construction activity has been observed at Ma-an-shan Iron and Steel Plant since December 1969, the date of the latest photography used in the previous report. The unidentified building, previously reported under construction next to one of the side-blown converter shops, has been completed. It can now be identified as a probable storage building. In addition, a probable forge/foundry building was constructed next to the foundry building between December 1969 and December 1970.

A high level of activity was observed at the plant on the latest referenced imagery. The following facilities were observed operating: seven of 15 blast furnaces, one side-blown converter shop, the iron ore sintering plant, and the by-product coke oven batteries. The poor quality of the May 1970 photograph precluded an accurate assessment of the activity level.

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FIGURE 8. NAN-CHING IRON AND STEEL PLANT YUNG-LI,

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Nan-ching Iron and Steel Plant Yung-li		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SPL647652	32-12-12N 118-44-55E	
MAP REFERENCE		
2nd RTS. USATC. Series 200, Sheet M0386-22HL, 3rd ed, Sep 67, Scale 1:200,000		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

BASIC DESCRIPTION

Construction activity has been observed at Nan-ching Iron and Steel Plant Yung-li since December 1969, the date of the latest photography used in the previous report. Two unidentified buildings (Items 3 and 7), initially observed under construction in December 1969, have been completed. A probable ladle car maintenance building (Item 4) was completed between December 1969 and May 1970. Construction of another unidentified building (Item 5) was started between December 1969 and May 1970. Work on the by-product coke oven batteries (Item 6) also began between December 1969 and May 1970. One battery appeared to be in a mid-stage of construction and only site preparation had started on the second one. It is not known at this time if an additional unidentified building (Item 2) is associated with the iron and steel plant. Construction of this building was completed between November 1967 and November 1968.

A moderate level of activity was observed at this plant in May and December 1970. The blast furnaces and the side-blown converter shop were operating in December 1970.

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Key to Annotations

Item No.	Description	Dimensions (Ft)	Roof Cover (Sq. Ft)	Remarks
1	Rolling mill U/C	---	---	Nearing completion
2	Unidentified building	340 x 100	34,000	Complete
3	Unidentified building	305 x 145.	44,225	Complete
4	Probable ladle car maintenance building	---	---	Complete
5	Unidentified building	---	---	---
6	By-product coke oven batteries U/C	---	---	---
7	Unidentified building	205 x 120	30,000	Complete

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Pao-tou Iron and Steel Plant Kun-tu-lun		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
49TCR950998	40-38-52N 109-45-20E	
MAP REFERENCE		
2nd RTS. USATC, Series 200 Sheet M0288-22HL 3rd ed. Aug 68. Scale 1:200,000		
(SECRET) 25X1		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA 25X1

BASIC DESCRIPTION

Construction activity has been observed at Pao-tou Iron and Steel Plant Kun-tu-lun since September 1969, the date of the latest photography used in the previous report. A third large blast furnace (Figure 9, Item 4) was observed in a late stage of construction. The addition to the open-hearth furnace building (Item 5) has been completed and work has started on another addition. The air separation plant (Item 6) has also been completed. A cooling tower and two small unidentified buildings (Item 7) have been constructed in an area previously reported as unidentified construction. Work was progressing slowly on the new rolling/finishing mill (Item 8). However, the addition to the large rolling mill (Item 9) was nearing completion, and work was continuing on the previously reported unidentified building (Item 5).

A high level of activity was observed at the plant on the referenced imagery. On the latest coverage, the following facilities were observed operating: two large and two small blast furnaces (Items 1 and 4) the open-hearth furnace building, the side-blown converter shop (Item 2), the by-product coke oven batteries, the coke by-products section, a iron ore sintering plant, and the associated thermal power plant.

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Key to Annotations

<u>Item No.</u>	<u>Description</u>	<u>Remarks</u>
1	Blast furnaces (2)	Small, operating
2	Side-blown converter shop	5 Converter and 2 cupola furnaces
3	Unidentified building under construction	---
4	Blast furnaces (3)	Large, 2 operating and 1 under construction
5	Open-hearth furnace building	5 Stacks, one new section under construction
6	Air separation plant	Complete
7	Unidentified facility	Under construction
8	Rolling/finishing mill	Under construction
9	Rolling mill addition	Nearing completion

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FIGURE 9. PAO-TOU IRON AND STEEL PLANT KUN-TU-LUN.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Pen-chi Iron and Steel Plant Kung-yuan		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51TWF612682	41-16-10N 123-44-06E	
MAP REFERENCE		25X1
USATC, Series 200, Sheet M0290-16HL, 4th ed, Jul 65, Scale 1:200,000		
(SECRET)		25X1
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	

BASIC DESCRIPTION

No changes have been observed at Pen-chi Iron and Steel Plant Kung-yuan since January 1970, the date of the latest photography used in the previous report.

A high level of activity was observed at this plant on the referenced imagery. The two forge shops, two rolling mills, the by-product coke oven batteries, the coke by-products section, the two blast furnaces, an iron ore sintering plant, and the power plant were observed operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Pen-chi Iron Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51TWF636738	41-19-13N 123-45-48E	
MAP REFERENCE		
USATC, Series 200. Sheet M0290-16H.. 4th ed, Jul 65, Scale 1:200,000		25X1
(SECRET)		25X1
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

No changes have been observed at Pen-chi Iron Plant since January 1970, the date of the latest photography used in the previous report.

A high level of activity was observed at this plant on the referenced imagery. The two blast furnaces, the probable side-blown converter shop, and the by-product coke oven batteries were observed operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
San-ming Iron and Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50RNE610048	26-15-38N 117-36-44E	
MAP REFERENCE		
15th RTS. JSATC, Series 200, Sheet M0498-14HI, 3rd ed. Dec 67 Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

NOTICE

There has been no photographic coverage of San-ming Iron and Steel Plant since December 1969, the date of the latest photography used in the previous report.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Shang-hai Iron and Steel Plant No. 1		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
51RLE550707	31-21-25N 121-28-40E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed. Dec 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

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BASIC DESCRIPTION

No changes have been observed at Shang-hai Iron and Steel Plant No. 1 since December 1969, the date of the latest imagery used in the previous report.

A high level of activity was observed at the plant on the referenced imagery. The basic oxygen furnace building, the side-blown converter shop, a foundry, the by-product coke oven batteries, the limestone preparation plant, and the power plant were observed operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Shang-hai Steel Plant No. 5		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
51RUE550744	31-23-25N 121-28-39E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0492-2HL, 3rd ed, Dec 68, Scale 1:200,000		
(SECRET)		25X1
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

No changes have been observed at Shang-hai Steel Plant No. 5 since December 1969, the date of the latest imagery used in the previous report. The unidentified building under construction in March 1969 remained unfinished.

A moderate level of activity was observed at the plant on the referenced imagery. The side-blown converter shop and a rolling mill were observed operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Shih-tsui-shan Iron and Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
48SXU543522	39-18-45N 106-47-15E	
MAP REFERENCE		

USATC, Series 200, Sheet M0383-4HL, 1st ed, Oct 62, Scale 1:200,000
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LATEST IMAGERY USED	NEGATION DATE (If required)
	NA

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BASIC DESCRIPTION

Only one change has been observed at Shih-tsui-shan Iron and Steel Plant since May 1969, the date of the latest photography used in the previous report. New rail spurs serving the rolling mill and one blast furnace were constructed between October 1969 and March 1970. A rail spur serving the beehive coke oven batteries was reconstructed during the same time period. This rail spur had previously been reported as being removed.

A low level of activity was observed at the plant on all the referenced imagery. Smoke was seen coming from a rolling mill and the producer gas plant in December 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Tang-shan Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SPJ038885	39-38-11N 118-12-06E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0381-2HL, 3rd ed. Jul 70. Scale 1:200 000		
(SECRET)		25X1
LATEST IMAGERY USED	NEGATION DATE (if required)	
	NA	

BASIC DESCRIPTION

No changes have been observed at Tang-shan Steel Plant since December 1969, the date of the latest photography used in the previous report. The possible forge shop remains in a late stage of construction.

A moderate level of activity was observed at the plant on all the referenced imagery. The two side-blown converter shops were observed operating. The three blast furnaces were not observed operating and probably are inactive.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Tien-ching Steel Plant No. 2		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50SNU231260	39-04-57N 117-16-02E	
MAP REFERENCE		
15th RTS. USATC, Series 200, Sheet M0381-6HL, 4th ed. Mar 70 Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

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BASIC DESCRIPTION

Construction activity has been observed at Tien-ching Steel Plant No. 2 since December 1969, the date of the latest photography used in the previous report. A large unidentified building, measuring approximately 1,300 by 100 feet, and several small support buildings were observed under construction southwest of the blooming and slabbing mill. This unidentified building was in an early stage of construction.

A moderate level of activity was observed at the plant on the referenced imagery. The side-blown converter shop was observed operating in May and November 1970.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Wu-han Iron and Steel Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
50RKJ543921	30-37-34N 114-26-37E	
MAP REFERENCE		
USN00. USATC, Series 200, Sheet M0493-6HL, 4th ed, Jan 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (if required)
		NA

BASIC DESCRIPTION

Construction activity has been observed at Wu-han Iron and Steel Plant since January 1970, the date of the latest photography used in the previous report. A fourth large blast furnace has been constructed in line with the existing three. This blast furnace was started just prior to January 1970 and was observed complete and operating in December 1970. The previously reported probable addition to the open-hearth furnace building has been completed, but it is a separate building and not connected to the furnace building. The function of this building cannot be determined. A probable air separation plant, located east of the large rolling mill, was identified in October 1970. This plant was started prior to December 1968 and was in a late stage of construction in December 1970.

A high level of activity was observed at the plant on the referenced imagery. The following facilities were observed operating in October and December 1970: two of the four blast furnaces, four of the seven probable open-hearth furnaces, the by-product coke oven batteries, the coke by-products section, the iron ore sintering plant, and the thermal power plant. In December 1970, the new blast furnace and the new open-hearth furnace were also observed operating.

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Wu-lu-mu-chi Iron and Steel Plant August 1		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
45TWJ232546	43-50-30N 087-17-20E	
MAP REFERENCE		
2nd RTS. USATC, Series 200, Sheet M0330-3H1, 3rd ed. Jun 69, Scale 1:200,000		
(SECRET)		25X1
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

BASIC DESCRIPTION

Construction activity has been observed in only one area at Wu-lu-mu-chi Iron and Steel Plant August 1 since December 1969, the date of the latest photography used in the previous report. Foundation scarring for an addition to the south end of the longest rolling mill was observed in the southern section of the plant.

A high level of activity was observed at the plant on the referenced imagery. The blast furnace, a side-blown converter shop, the beehive coke oven batteries, and the iron ore sintering plant were observed operating.

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